

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 25394-57-4 REGISTRY
CN 2,6,8-Decatrienamide, N-(2-methylpropyl)-, (2E,6Z,8E)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,6,8-Decatrienamide, N-(2-methylpropyl)-, (E,E,Z)-
CN 2,6,8-Decatrienamide, N-isobutyl-, (E,E,Z)- (8CI)
CN Affinin (7CI)

OTHER NAMES:

CN N-Isobutyldeca-trans-2,cis-6,trans-8-trienamide

CN Spilanthol

FS STEREOSEARCH

DR 504-47-2

MF C14 H23 N O

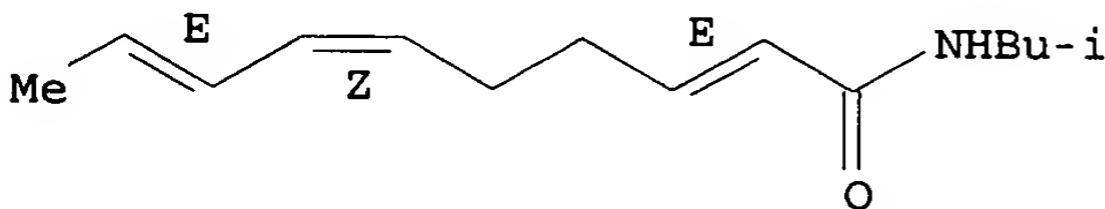
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, DDFU, DRUGU, IFICDB, IFIPAT, IFIUDB, IPA, MRCK*, NAPRALERT, RTECS*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

48 REFERENCES IN FILE CA (1907 TO DATE)

48 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L18 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:372574 CAPLUS
DN 140:362549
ED Entered STN: 07 May 2004
TI Anti-dandruff and anti-itch compositions containing **sensate** and
sensate enhancer-containing compounds
IN Flammer, Linda J.; Grainger, Brian T.; Boden, Richard M.; Christensen,
Carol
PA USA
SO U.S. Pat. Appl. Publ., 9 pp., Cont.-in-part of U.S. Ser. No. 67,596,
abandoned.
CODEN: USXXCO
DT Patent
LA English
IC ICM A61K007-06
ICS A61K007-11
NCL 424070110; 424074000
CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004086476	A1	20040506	US 2003-643542	20030819
	US 2003161802	A1	20030828	US 2002-67596	20020205
	BR 2002004271	A	20040601	BR 2002-4271	20020927
	CN 1436520	A	20030820	CN 2002-150624	20021111
PRAI	US 2002-67596	B2	20020205		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	US 2004086476	ICM	A61K007-06
		ICS	A61K007-11
		NCL	424070110; 424074000
	US 2004086476	ECLA	A61K008/34; A61K008/35; A61K008/37; A61K008/42; A61K008/97; A61Q005/00; A61Q005/02

AB Described are anti-dandruff and anti-itch compns. comprising: (a) an anti-dandruff agent; (b) a cooling **sensate** material; and (c) a cooling **sensate**. Also described are personal care products for reduction of itching including shampoos, soaps, ointments and creams which contain the anti-dandruff and anti-itch compns. A shampoo contained ammonium lauryl sulfate (27% aqueous solution) 56.0, citric acid 0.50, sodium citrate 0.50, coconut monoethanolamide 5.0, ethylene glycol distearate 3.0, Me paraben 0.50, Pr paraben 0.50, color solution 0.20, water 33.8 parts by weight. To the above shampoo zinc pyrithione at the rate of 1%, menthol at the rate of 0.5%, N,2,3-trimethyl-2-isopropyl-butyramide at the rate of 0.35% and nonylic acid vanillamide at the rate of 0.002% was added to obtain the anti-dandruff and anti-itching composition of the invention.

ST antidandruff itching **sensate** enhancer compd shampoo

IT Alcohols, biological studies

Ethers, biological studies

Glycols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(C1-5, menthoxy derivs.; anti-dandruff and anti-itch compns. containing
sensate and **sensate** enhancer-containing compds.)

IT Cooling

Cream

Piper nigrum

Pruritus

Shampoos

Zanthoxylum piperitum

(anti-dandruff and anti-itch compns. containing **sensate** and
sensate enhancer-containing compds.)

IT Soaps

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(anti-dandruff and anti-itch compns. containing **sensate** and
sensate enhancer-containing compds.)

IT Cosmetics
(creams; anti-dandruff and anti-itch compns. containing **sensate** and
sensate enhancer-containing compds.)

IT Essential oils
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(ginger; anti-dandruff and anti-itch compns. containing **sensate** and
sensate enhancer-containing compds.)

IT Dandruff
(inhibitors; anti-dandruff and anti-itch compns. containing **sensate** and
sensate enhancer-containing compds.)

IT Essential oils
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(mint, Mentha; anti-dandruff and anti-itch compns. containing
sensate and **sensate** enhancer-containing compds.)

IT Drug delivery systems
(ointments; anti-dandruff and anti-itch compns. containing **sensate** and
sensate enhancer-containing compds.)

IT Resins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oleoresins; anti-dandruff and anti-itch compns. containing **sensate** and
sensate enhancer-containing compds.)

IT Essential oils
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(peppermint; anti-dandruff and anti-itch compns. containing **sensate** and
sensate enhancer-containing compds.)

IT Essential oils
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(spearmint; anti-dandruff and anti-itch compns. containing **sensate** and
sensate enhancer-containing compds.)

IT 89-78-1, Menthol 89-79-2, Isopulegol 89-80-5, Menthone 94-62-2,
Piperine 99-82-1D, p-Menthane, hydroxy-lower alkyl derivs. 119-36-8,
Methyl salicylate 121-32-4D, Ethyl vanillin, C3-6 alkylene glycol acetal
derivs. 121-33-5, Vanillin 404-86-4, Capsaicin 495-91-0, Chavicine
1490-04-6, Menthol 2444-46-4 13284-97-4D, Cyclohexyl sulfoxide, alkyl
derivs. 13463-41-7, Zinc 1-hydroxy-2-pyridinethione 17162-29-7,
Methyl lactate 19072-58-3D, Vanillamide, C7-12 alcanoic acid derivs.
25394-57-4, Spilanthol 25830-82-4 25830-82-4D, alkali metal
salts 28797-07-1D, Cyclohexyl sulfone, alkyl derivs. 39711-79-0,
N-Ethyl-p-menthane-3-carboxamide 51115-67-4 75363-56-3 75363-56-3D,
alkali metal salts 82654-98-6 110866-25-6, Sanshool
I 159131-97-2, Sanshoamide 352515-13-0,
Sanshool-II
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(anti-dandruff and anti-itch compns. containing **sensate** and
sensate enhancer-containing compds.)

L18 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:944238 CAPLUS
DN 140:180285
ED Entered STN: 04 Dec 2003
TI Pungent and tingling compounds in Asian cuisine
AU Galopin, Christophe C.; Furrer, Stefan M.; Goeke, Andreas
CS Givaudan Flavors R&D, Ingredient Systems, Cincinnati, OH, 45069, USA
SO ACS Symposium Series (2004), 867(Challenges in Taste Chemistry and
Biology), 139-152
CODEN: ACSMC8; ISSN: 0097-6156
PB American Chemical Society
DT Journal; General Review
LA English
CC 17-0 (Food and Feed Chemistry)

AB A review. Southern Asian cuisine is well known for its use of flavorful and pungent spices. The **sanshool** chems., such as α -hydroxy- **sanshool** from the Japanese Sanchoo pepper and other Asian peppers, are particularly interesting because they not only give a hot **sensation** in the mouth cavity but also a tingling effect on the tongue. In order to understand the effect of the **sanshool** chems. the authors have synthesized a variety of derivs. Tasting of those derivs. provided information about Structure Activity Relationship (SAR) for the tingling effect exhibited by these chems. Based on this study the authors are able to propose a minimal structure required for the tingling effect. We also used this SAR knowledge to design stable compds. with potential tingling effect.

ST review Asian food additive Sanshoo bungeanool deriv pungency tingling; Sanshoo bungeanool deriv structure pungency tingling review

IT Taste
(pungency; pungent and tingling compds. in Asian cuisine)

IT Spices
(pungent and tingling compds. in Asian cuisine)

IT Structure-activity relationship
(taste; pungent and tingling Sanshoo and bungeanool compds. in Asian cuisine)

IT Food functional properties
(tingling; pungent and tingling Sanshoo and bungeanool compds. in Asian cuisine)

IT 83883-10-7D, α -Hydroxy- **sanshool**, derivs.
117568-40-8D, Bungeanool, derivs.
RL: BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(pungent and tingling Sanshoo and bungeanool compds. in Asian cuisine)

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Bryant, B; Brain Research 1999, V842, P452 CAPLUS
- (2) Chen, I; Phytochemistry 1999, V52, P357 CAPLUS
- (3) Crombie, L; J Chem Soc 1952, P4338 CAPLUS
- (4) Crombie, L; J Chem Soc 1955, P995 CAPLUS
- (5) Crombie, L; J Chem Soc 1957, P2760 CAPLUS
- (6) Crombie, L; Tetrahedron Lett 1985, V26(20), P2477 CAPLUS
- (7) Jacobson, M; J Org Chem 1967, V32, P1646 CAPLUS
- (8) Mizutani, K; Chem Pharm Bull 1988, V36(7), P2362 CAPLUS
- (9) Sonnet, P; J Org Chem 1969, V34(4), P1147 CAPLUS
- (10) van der Linde, L; EP 0173395 A1 1985 CAPLUS
- (11) Ward, J; Recl Trav Chim Pays-Bas 1969, V88, P177 CAPLUS
- (12) Xiong, Q; Phytochemistry 1997, V46(6), P1123 CAPLUS

L18 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:609487 CAPLUS

DN 139:138355

ED Entered STN: 08 Aug 2003

TI Anti-dandruff and anti-itch compositions containing a cooling sensate material and a cooling sensate enhancer

IN Flammer, Linda J.; Grainger, Brian T.; Boden, Richard M.; Christensen, Carol

PA International Flavors & Fragrances Inc., USA

SO Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM A61P017-00

ICS A61K007-48

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

FAN.CNT 2

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

PI	EP 1332772	A2	20030806	EP 2003-250700	20030204
	EP 1332772	A3	20041117		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2003161802	A1	20030828	US 2002-67596	20020205
	BR 2002004271	A	20040601	BR 2002-4271	20020927
	CN 1436520	A	20030820	CN 2002-150624	20021111
	PRAI US 2002-67596	A	20020205		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES		
EP 1332772	ICM	A61P017-00		
	ICS	A61K007-48		
EP 1332772	ECLA	A61K008/34; A61K008/35; A61K008/37; A61K008/42; A61K008/97; A61Q005/00; A61Q005/02		
AB	Described are anti-dandruff and anti-itching compns. comprising: (a) an antidandruff agent; (b) a cooling sensate material; and (c) a cooling sensate enhancer. Also described are personal care products for reduction of itching including shampoos, soaps, ointments and creams which contain the anti-dandruff and anti-itch compns. To a shampoo, zinc pyrithione 1 %, menthol 0.5 %, and N,2,3-trimethyl-2-isopropylbutyramide 0.35 % were added. Deep cleansing, soothing, itching reduction, cooling, and/or tingling effects were reported.			
ST	dandruff itching control cooling enhancing agent; menthol pyrithione antidandruff shampoo			
IT	Piper nigrum Pruritus Seborrhea <i>Zanthoxylum piperitum</i> (anti-dandruff and anti-itching compns. containing cooling sensation agents)			
IT	Soaps RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (anti-dandruff and anti-itching compns. containing cooling sensation agents)			
IT	Shampoos (antidandruff; anti-dandruff and anti-itching compns. containing cooling sensation agents)			
IT	Essential oils RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (mint, Mentha; anti-dandruff and anti-itching compns. containing cooling sensation agents)			
IT	Drug delivery systems (ointments, creams; anti-dandruff and anti-itching compns. containing cooling sensation agents)			
IT	Drug delivery systems (ointments; anti-dandruff and anti-itching compns. containing cooling sensation agents)			
IT	Capsicum <i>Zingiber officinale</i> (oleoresins; anti-dandruff and anti-itching compns. containing cooling sensation agents)			
IT	Resins RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (oleoresins; anti-dandruff and anti-itching compns. containing cooling sensation agents)			
IT	Essential oils RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)			

(peppermint; anti-dandruff and anti-itching compns. containing cooling sensation agents)

IT Essential oils

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(spearmint; anti-dandruff and anti-itching compns. containing cooling sensation agents)

IT 89-78-1, Menthol 89-79-2, Isopulegol 89-80-5, Menthone 94-62-2, Piperine 119-36-8, Methyl salicylate 404-86-4, Capsaicin 495-91-0, Chavicine 2444-46-4, Vanillyl n-nonylamide 13463-41-7, 1-Hydroxy-2-pyridinethione zinc salt 17162-29-7, Menthyl lactate 25394-57-4, Spilanthol 25830-82-4 39711-79-0, N-Ethyl-p-menthane-3-carboxamide 42822-86-6 51115-67-4 63187-91-7 75363-56-3 82654-98-6, Vanillyl butyl ether 110866-25-6, Sanshool I 159131-97-2, Sanshoamide 352515-13-0, Sanshool-II

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(anti-dandruff and anti-itching compns. containing cooling sensation agents)

L18 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:842774 CAPLUS

DN 138:284551

ED Entered STN: 06 Nov 2002

TI Pungency and tingling: sensations and mechanisms of trigeminal chemical sensitivity

AU Bryant, Bruce; Mezine, Igor

CS Monell Chemical Senses Center, Philadelphia, PA, 19104, USA

SO ACS Symposium Series (2002), 825 (Chemistry of Taste), 202-212
CODEN: ACSMC8; ISSN: 0097-6156

PB American Chemical Society

DT Journal

LA English

CC 13-6 (Mammalian Biochemistry)

AB Distinct from taste and olfaction, the trigeminal nerve is the third sensory pathway in the cranial sensory system that is sensitive to chemical stimuli. Trigeminal nerve endings in the nose and mouth contribute to flavor through the sensory modalities of touch, thermal sensation and pain. The best-characterized example of chemical induced trigeminal sensation is the pungency produced by hot peppers, the result of the activation of ion channels on pain-sensitive and thermally sensitive nerve fibers. Compds. commonly found in spices, food and beverages also elicit sensations other than pain. Menthol and other related compds. stimulate a subclass of thermal nerve endings to produce cooling. Yet other compds., stimuli as diverse as CO₂ and fatty acids as well as some unsatd. alkylamides found in non-capsicum peppers and other plants, activate cooling-sensitive and tactile nerve endings. This particular combination of modalities gives rise to the novel tingling sensations associated with these stimuli.

ST hydroxysanshool calcium pungency tingling trigeminal neurotransmission flavor

IT Neurotransmission

(pungency and tingling sensations and mechanisms of trigeminal chemical sensitivity)

IT Taste

(pungency; pungency and tingling sensations and mechanisms of trigeminal chemical sensitivity)

IT Nerve

(trigeminal; pungency and tingling sensations and mechanisms of trigeminal chemical sensitivity)

IT Amides, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(unsatd.; pungency and tingling sensations and mechanisms of trigeminal chemical sensitivity)

IT 7440-70-2, Calcium, biological studies 83883-10-7,
Hydroxy- α - sanshool
RL: BSU (Biological study, unclassified); BIOL (Biological study) (effects of hydroxy- α - sanshool on intraneuronal calcium and taste pungency in mechanisms of trigeminal chemical sensitivity)

IT 504-97-2, α - Sanshool 7328-34-9
10076-00-3, β - Sanshool 18744-21-3 18836-52-7,
Pellitorine 25394-57-4, Spilanthol 30361-33-2 65937-49-7
68125-01-9 73785-32-7 97465-69-5, Hydroxy- β - sanshool 252193-26-3, Hydroxy- ϵ - sanshool 499136-10-6 499136-12-8
RL: BSU (Biological study, unclassified); BIOL (Biological study) (pungency and tingling sensations and mechanisms of trigeminal chemical sensitivity)

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Anon; Fenaroli's Handbook of Flavor Ingredients 1971, P445
- (2) Bryant, B; Brain Res 1999, V842, P452 CAPLUS
- (3) Caterina, M; Nature 1997, V389, P816 CAPLUS
- (4) Craig, A; Science 1994, V265, P252 MEDLINE
- (5) Duke, J; CRC Handbook of Medicinal Herbs 1985
- (6) Garnsworthy, R; J Neurophysiol 1988, V59, P1116 MEDLINE
- (7) Green, B; Chemical Senses 1992, V17, P435 CAPLUS
- (8) Greger, H; Planta Medica 1984, V50, P366 CAPLUS
- (9) Hegnauer, R; The Biology and Chemistry of the Compositae 1977
- (10) Holzer, P; Pharmacol Rev 1991, V43, P143 CAPLUS
- (11) Jacobson, M; J Am Chem Soc 1948, V70, P4234 CAPLUS
- (12) Kashiwada, Y; Phytochem 1997, V44, P1125 CAPLUS
- (13) Liu, L; J Neurophysiol 1996, V76, P1858 CAPLUS
- (14) Martenson, M; Brain Res 1997, V761, P71 CAPLUS
- (15) Schmelz, M; J Neurosci 1997, V17, P8003 CAPLUS
- (16) Walpole, C; J Med Chem 1993, V36, P2381 CAPLUS
- (17) Yasuda, I; Chem Pharm Bull 1981; V29, P1791 CAPLUS

L18 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:613257 CAPLUS

ED Entered STN: 16 Aug 2002

TI Pungent and tingling compounds in Asian cuisine

AU Galopin, Christophe C.; Furrer, Stefan M.; Goeke, Andreas

CS Ingredient Systems, Givaudan Flavors R&D, Cincinnati, OH, 45216, USA

SO Abstracts of Papers, 224th ACS National Meeting, Boston, MA, United States, August 18-22, 2002 (2002), AGFD-056 Publisher: American Chemical Society, Washington, D. C.

CODEN: 69CZPZ

DT Conference; Meeting Abstract

LA English

AB Southern Asian cuisine is well known for its use of flavorful and pungent spices. The sanshool chems., such as alpha-hydroxy-sanshool from the Japanese Sancho pepper and other Asian peppers, are particularly interesting because they not only give a hot sensation in the mouth cavity but also a tingling effect on the tongue. In order to understand the effect of the sanshool chems. we have synthesized a variety of derivs. Tasting of those derivs. provided information about Structure Activity Relationship (SAR) for the tingling effect exhibited by these chems. Based on this study we are able to propose a minimal structure required for the tingling effect. We also used this SAR knowledge to design stable compds. with potential tingling effect.

L18 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:923556 CAPLUS

DN 136:58521
 ED Entered STN: 21 Dec 2001
 TI Cosmetic composition for stressed skin under extreme conditions containing
 a hydrocarbon, a silicone and plant extracts
 IN Mohammadi, Fatemeh; Vargas, Anthony
 PA FD Management, Inc., USA
 SO PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A01N065-00
 ICS A61K035-78; A61K039-385
 CC 62-4 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001095728	A1	20011220	WO 2001-US19200	20010613
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 2002012640	A1	20020131	US 2001-880245	20010613
	US 6649178	B2	20031118		
PRAI	US 2000-211290P	P	20000613		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	WO 2001095728	ICM	A01N065-00
		ICS	A61K035-78; A61K039-385
AB	A cosmetic composition is provided effective against stresses of climate extremes. The composition includes hot, cold and dry climate treatment portions. The hot climate treatment portion has a first botanical ingredient to impart a cool sensation, and a sunscreen agent. The cold climate treatment portion has a second botanical ingredient to combat skin inflammation, and a silicone fluid or hydrocarbon for retaining moisturize. The dry climate treatment portion has a third botanical ingredient to impart moisturization and an ester..		
ST	hydrocarbon silicone plant ext sunscreen cosmetic		
IT	Natural products, pharmaceutical RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (Baizhu; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)		
IT	Balsams RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (Canada, exts.; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)		
IT	Natural products, pharmaceutical RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (Cangzhu; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)		
IT	Natural products, pharmaceutical RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (aloe, exts.; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)		
IT	Fats and Glyceridic oils, biological studies RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (bean tree oil; cosmetic composition for stressed skin containing hydrocarbon,		

silicone, plant exts. and sunscreen)

IT Pollen
(bee; cosmetic composition for stressed skin containing hydrocarbon, silicone,
silicone,
plant exts. and sunscreen)

IT Anti-inflammatory agents
(botanical; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Proteins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(conchorin, hydrolyzates; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Cosmetics
Eleutherococcus
Gentiana
Stress, animal
Sunscreens
(cosmetic composition for stressed skin containing hydrocarbon, silicone,
plant
exts. and sunscreen)

IT Clays, biological studies
Hydrocarbons, biological studies
Petrolatum
Polyamides, biological studies
Polysiloxanes, biological studies
Quaternary ammonium compounds, biological studies
Silicone rubber, biological studies
Sitosterols
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic composition for stressed skin containing hydrocarbon, silicone,
plant
exts. and sunscreen)

IT Polyoxyalkylenes, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(di-Me, Me hydrogen polysiloxane-; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Polysiloxanes, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(di-Me, Me hydrogen, polyoxyalkylene-; cosmetic composition for stressed skin containing hydrocarbon, silicone, plant exts. and sunscreen)

IT Cyclosiloxanes
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(di-Me; cosmetic composition for stressed skin containing hydrocarbon,
silicone,
plant exts. and sunscreen)

IT Carboxylic acids, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(esters, C6-40; cosmetic composition for stressed skin containing
hydrocarbon,
silicone, plant exts. and sunscreen)

IT Opuntia
Solanum dulcamara
Yeast
(extract; cosmetic composition for stressed skin containing hydrocarbon,
silicone,
plant exts. and sunscreen)

IT Acacia
Achillea
Aesculus
Agropyron
Alnus
Angelica dahurica
Arnica

Artemisia
Astragalus
Avena sativa
Black cohosh
Borago officinalis
Calendula
Caulophyllum thalictroides
Centaurea cyanus
Centella asiatica
Chamomile
Chrysanthemum parthenium
Cornus
Curcuma longa
Embryophyta
Ephedra
Equisetum
Euphrasia
Ganoderma
Geranium (genus)
Ginkgo
Ginkgo biloba
Gorgonacea
Harpagophytum procumbens
Hydrastis
Lantana camara
Lawsonia inermis
Leontopodium alpinum
Ligusticum
Marrubium vulgare
Millet
Oenothera
Panax
Panicum
Pinus pinaster
Piper methysticum
Psidium
Rhamnus
Rosmarinus officinalis
Scutellaria baicalensis
Stellaria
Symphytum
Trifolium pratense
Watercress
Yucca

(exts.; cosmetic composition for stressed skin containing hydrocarbon,
silicone,

plant exts. and sunscreen)

IT Natural products, pharmaceutical

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(fang feng; cosmetic composition for stressed skin containing hydrocarbon,
silicone, plant exts. and sunscreen)

IT Lonicera

(flower exts.; cosmetic composition for stressed skin containing
hydrocarbon,

silicone, plant exts. and sunscreen)

IT Forsythia

Vitis vinifera

(fruit exts.; cosmetic composition for stressed skin containing hydrocarbon,
silicone, plant exts. and sunscreen)

IT Essential oils

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(guaiac wood; cosmetic composition for stressed skin containing hydrocarbon,
silicone, plant exts. and sunscreen)

IT Resins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(guggal; cosmetic composition for stressed skin containing hydrocarbon,
silicone, plant exts. and sunscreen)

IT Caseins, biological studies
Collagens, biological studies
Elastins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hydrolyzates; cosmetic composition for stressed skin containing
hydrocarbon,
silicone, plant exts. and sunscreen)

IT Natural products, pharmaceutical
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(licorice, exts.; cosmetic composition for stressed skin containing
hydrocarbon,
silicone, plant exts. and sunscreen)

IT Glycolipids
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(phytglycolipids; cosmetic composition for stressed skin containing
hydrocarbon, silicone, plant exts. and sunscreen)

IT Protein hydrolyzates
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(potato, corn, rice; cosmetic composition for stressed skin containing
hydrocarbon, silicone, plant exts. and sunscreen)

IT Cichorium intybus
(root extract; cosmetic composition for stressed skin containing
hydrocarbon,
silicone, plant exts. and sunscreen)

IT Paeonia
Quercus
(root exts.; cosmetic composition for stressed skin containing hydrocarbon,
silicone, plant exts. and sunscreen)

IT Apium prostratum
(sea parsley, exts.; cosmetic composition for stressed skin containing
hydrocarbon, silicone, plant exts. and sunscreen)

IT Protein hydrolyzates
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(silk; cosmetic composition for stressed skin containing hydrocarbon,
silicone,
plant exts. and sunscreen)

IT Protein hydrolyzates
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(soya; cosmetic composition for stressed skin containing hydrocarbon,
silicone,
plant exts. and sunscreen)

IT Sterols
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(soybean and canola; cosmetic composition for stressed skin containing
hydrocarbon, silicone, plant exts. and sunscreen)

IT Canola
Glycine max
(sterols; cosmetic composition for stressed skin containing hydrocarbon,
silicone, plant exts. and sunscreen)

IT Skin
(stressed; cosmetic composition for stressed skin containing hydrocarbon,
silicone, plant exts. and sunscreen)

IT Protein hydrolyzates
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(wheat; cosmetic composition for stressed skin containing hydrocarbon,
silicone,
plant exts. and sunscreen)

IT 56-81-5, Glycerin, biological studies 57-13-6, Urea, biological studies
58-95-7, Vitamin E acetate 65-86-1, Orotic acid 83-48-7, Stigmasterol

89-48-5, Menthyl acetate 89-78-1, Menthol 89-79-2, Isopulegol
 89-80-5, Menthone 97-59-6, Allantoin 99-20-7, Trehalose 104-46-1,
 Anethole 110-17-8D, Fumaric acid, C12-15 dialkyl esters 112-92-5,
 Stearyl Alcohol 119-36-8, Methyl salicylate 122-99-6, Phenoxyethanol
 131-57-7, Benzophenone-3 275-51-4, Azulene 470-82-6, Eucalyptol
 474-62-4, Campesterol 474-67-9, Brassicasterol 515-69-5, Bisabolol
 517-89-5, Shikonin 1122-56-1, Cyclohexanecarboxamide 1122-56-1D,
 Cyclohexane carboxamide, trialkyl-substituted 1490-04-6 5466-77-3,
 Parsol MCX 6805-41-0, Escin 8066-38-4, Phenonip 9002-88-4,
 Polyethylene 9005-00-9, Steareth-2 9016-00-6, Dimethylsiloxane
 9067-32-7, Sodium hyaluronate 10043-11-5, Boron nitride, biological
 studies 16485-10-2, DL-Panthenol 17162-29-7, Methyl lactate
 20283-92-5, Rosmarinic acid 25394-57-4, Spilanthol 39711-79-0,
 N-Ethyl-p-menthane-3-carboxamide 42557-10-8, DC 200 51115-67-4
 54571-67-4, PCA Soda 55592-86-4 63187-91-7 70356-09-1, Parsol 1789
 75363-56-3 78886-66-5, Hydroxy- γ - sanshool
 83883-10-7, Hydroxy- α - sanshool 87061-04-9
 97465-69-5, Hydroxy- β - sanshool 125275-25-4,
 Polyquaternium 51 190085-41-7 195868-36-1, Phenyl trimethicone
 314020-17-2, KSG 15 374629-79-5 381224-14-2 381224-15-3
 382137-53-3, Organza

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (cosmetic composition for stressed skin containing hydrocarbon, silicone,

plant

exts. and sunscreen)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Glenn; US 5716920 A 1998
- (2) Mausner; US 5571503 A 1996 CAPLUS
- (3) Oblong; US 6238678 B1 2001 CAPLUS
- (4) Oda; US 5725874 A 1998

L18 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:581442 CAPLUS

DN 135:157391

ED Entered STN: 10 Aug 2001

TI A composition causing different skin sensations

IN Nakatsu, Tetsuo; Mazeiko, Peter J.; Lupo, Andrew T., Jr.; Green, Carter B.; Manley, Charles H.; Spence, David J.; Ohta, Hideaki

PA Takasago International Corp., Japan

SO Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM A61K007-48

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 17, 63

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1121927	A2	20010808	EP 2001-400266	20010202
	EP 1121927	A3	20030514		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6780443	B1	20040824	US 2000-498592	20000204
	BR 2001000254	A	20011002	BR 2001-254	20010201
	JP 2001279227	A2	20011010	JP 2001-27361	20010202
	US 2003215532	A1	20031120	US 2003-464149	20030617
	US 2004052735	A1	20040318	US 2003-625074	20030722
PRAI	US 2000-498592	A	20000204		

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

EP 1121927	ICM	A61K007-48
EP 1121927	ECLA	A23G003/00+D; A23G003/30+D; A23L001/226F; A61K007/16D2; A61K007/48Z7D; C07C043/196
US 6780443	ECLA	A23G003/00+D; A23G003/30+D; A23L001/226F; A61K007/16D2; A61K007/48Z7D; C07C043/196
US 2003215532	ECLA	A23G003/00+D; A23G003/30+D; A23L001/226F; A61K007/16D2; A61K007/48Z7D; C07C043/196
US 2004052735	ECLA	A23G003/00+D; A23G003/30+D; A23L001/226F; A61K007/16D2; A61K007/48Z7D; C07C043/196

AB The present invention is directed to a **sensate** composition including at least one cooling **sensate**, warming **sensate** and tingling **sensate**. The tingling **sensate** is at least one of Jambu Oleoresin and Spilanthol. The present invention is further directed to a method of using the **sensate** composition in a food, pharmaceutical or personal care product. A composition contained ethanol 55.0, propylene glycol 28.0, N-ethyl-2-isopropyl-5-methylcyclohexacarboxamide 3.0, isopulegol 8.0, Jambu oleoresin 2.5, vanillyl bu ether 3.0, and mouthwash herbal flavor base 0.5 % by weight

ST skin sensation compn; mouthwash compn

IT Alcoholic beverages

Antiperspirants

Deodorants

Food additives

Mouthwashes

Pepper (Piper nigrum)

Perfumes

Zanthoxylum piperitum

(composition causing different skin **sensations**)

IT Cosmetics

(creams; composition causing different skin **sensations**)

IT Cosmetics

(lotions; composition causing different skin **sensations**)

IT Drug delivery systems

(lozenges; composition causing different skin **sensations**)

IT Drug delivery systems

(ointments; composition causing different skin **sensations**)

IT Resins

RL: BUU (Biological use, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(oleoresins; composition causing different skin **sensations**)

IT Essential oils

RL: BUU (Biological use, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(peppermint; composition causing different skin **sensations**)

IT Essential oils

RL: BUU (Biological use, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(spearmint; composition causing different skin **sensations**)

IT Drug delivery systems

(topical; composition causing different skin **sensations**)

IT Essential oils

RL: BUU (Biological use, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(wintergreen; composition causing different skin **sensations**)

IT 89-79-2, Isopulegol 89-80-5, Menthone 94-62-2, Piperine 404-86-4, Capsaicin 495-91-0, Chavicine 1321-60-4, Trimethylcyclohexanol 2216-51-5 2444-46-4 13184-86-6, Vanillyl ethyl ether 17162-29-7, Menthyl lactate 25394-57-4, Spilanthol 39711-79-0 42822-86-6, p-Menthane-3,8-diol 58253-27-3, Gingerol 63187-91-7 68527-74-2 68527-76-4 77341-67-4 81995-38-2, Vanillyl propyl ether 82654-98-6, Vanillyl butyl ether 110866-25-6, Sanshool I 159131-97-2, Sanshoamide 195863-84-4 207792-35-6 207844-02-8 207844-03-9 207844-04-0 207844-07-3 207844-08-4

207844-09-5 352430-69-4 352430-70-7 352430-71-8 352515-13-0

, Sanshool II

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(composition causing different skin sensations)

L18 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:641414 CAPLUS
DN 132:18754
ED Entered STN: 08 Oct 1999
TI Alkylamides that produce tingling paresthesia activate tactile and thermal trigeminal neurons
AU Bryant, B. P.; Mezine, I.
CS Monell Chemical Senses Center, Philadelphia, PA, USA
SO Brain Research (1999), 842(2), 452-460
CODEN: BRREAP; ISSN: 0006-8993
PB Elsevier Science B.V.
DT Journal
LA English
CC 1-12 (Pharmacology)
Section cross-reference(s): 14
AB Alkylamides isolated from the fruit of *Xanthoxylum*, Szechuan pepper, produce a strong tingling sensation in the mouth. To determine the peripheral basis of this sensation, extracellular nerve recordings were obtained from the lingual nerve of rats. The primary pungent compound, hydroxy- α - sanshool (HO- α -S), altered the levels of spontaneous activity in cool-sensitive fibers as well as inducing activity in tactile fibers, cold nociceptors and silent fibers that were insensitive to innocuous thermal or tactile stimuli. Moreover, tactile or thermal sensitivity was induced in fibers that were initially insensitive to touch or cooling. The neuronal distribution of sensitivities to capsaicin and to HO- α -S indicate that this compound affects neurons mediating innocuous sensations. HO- α -S may be useful as a model stimulus for studies of paresthesia.
ST alkylamide paresthesia tactile thermal trigeminal neuron
IT Pepper (spice)
(Szechuan; alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)
IT *Xanthoxylum*
(alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)
IT Amides, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(alkylamides; alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)
IT Pain receptors
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(cold; alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)
IT Nerve
(neuron, tactile and thermal; alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)
IT Pain
(tingling paresthesia; alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)
IT Nerve
(trigeminal; alkylamides of Szechuan pepper that produce tingling paresthesia activate tactile and thermal trigeminal neurons)
IT 83883-10-7, Hydroxy- α - sanshool 97465-69-5
, Hydroxy- β - sanshool 252193-26-3,

Hydroxy- ϵ - sanshool

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(alkylamides of Szechuan pepper that produce tingling paresthesia
activate tactile and thermal trigeminal neurons)

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Baumann, T; J Neurophysiol 1991, V66, P212 MEDLINE
- (2) Caterina, M; Nature 1997, V389, P816 CAPLUS
- (3) Cometto-Muniz, J; Physiol Behav 1985, V34, P385 MEDLINE
- (4) Craig, A; Science 1994, V265, P252 MEDLINE
- (5) Davis, K; Pain 1998, V75, P47 MEDLINE
- (6) Davis K; J Neurophysiol 1993, V69, P1071
- (7) Feigin, A; NeuroReports 1995, V6, P2134 CAPLUS
- (8) Green, B; Chem Sens 1992, V17, P435 CAPLUS
- (9) Grynkiewicz, G; J Biol Chem 1985, V260, P3440 CAPLUS
- (10) Hensel, H; J Neurophysiol 1970, V33, P271 MEDLINE
- (11) Hensel, H; Pfluegers Arch 1974, V352, P87 CAPLUS
- (12) Jacobson, M; J Am Chem Soc 1948, V70, P4234 CAPLUS
- (13) Kashiwada, Y; Phytochemistry 1997, V44, P1125 CAPLUS
- (14) Komai, M; Brain Res 1993, V612, P122 CAPLUS
- (15) Lamotte, R; Prog Brain Res 1988, V74, P331 MEDLINE
- (16) Nobile, M; Pfluegers Arch 1990, V415, P658 CAPLUS
- (17) Ochoa, J; J Physiol (London) 1983, V342, P633 MEDLINE
- (18) Pierau, F; Pfluegers Arch 1975, V359, P349 MEDLINE
- (19) Schafer, K; J Neurophys 1982, V47, P1017 MEDLINE
- (20) Schafer, K; Pfluegers Arch 1990, V417, P91 MEDLINE
- (21) Schmelz, M; J Neurosci 1997, V17, P8003 CAPLUS
- (22) Simone, D; J Neurophysiol 1997, V77, P2049 MEDLINE
- (23) Spray, D; Ann Rev Physiol 1986, V48, P625 MEDLINE
- (24) Steen, K; J Neurosci 1992, V12, P86 MEDLINE
- (25) Steranka, L; Proc Natl Acad Sci 1988, V85, P3245 CAPLUS
- (26) Swandulla, D; Pfluegers Arch 1987, V409, P52 CAPLUS
- (27) Szolcsanyi, J; Capsaicin in the study of pain 1993, P1 CAPLUS
- (28) Torebjork, H; Exp Brain Res 1973, V16, P321 MEDLINE
- (29) Weinreich, D; J Physiol 1987, V394, P415 MEDLINE
- (30) Yasuda, I; Phytochemistry 1982, V21, P1295 CAPLUS

L18 ANSWER 19 OF 20 JAPIO (C) 2004 JPO on STN
AN 1994-211677 JAPIO
TI PRIVATE PART-COATING CREAM CONTAINING ZANTHOXYLUM PIPERITUM
IN TEZUKA SHIRO; TEZUKA GORO
PA TEZUKA SHIRO
TEZUKA GORO
PI JP 06211677 A 19940802 Heisei
AI JP 1993-19262 (JP05019262 Heisei) 19930111
PRAI JP 1993-19262 19930111
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1994
IC ICM A61K035-78
ICS A61K035-78; A61K009-06
AB PURPOSE: To prepare the private part-coating cream suitably stimulating the private part to give a pleasant **sensation**, immediately when coated on the private part, and capable of strengthening and maintaining the sexual energy of the private part when continuously used.
CONSTITUTION: This private part-coating cream is characterized by comprising a stimulative substance obtained from the Zanthoxylum piperitum and containing **sanshool** or sanshoamide as a main ingredient, and a creamy stimulative substance concentration-controlling material obtained from a plant. The main ingredient of the controlling material comprises the mixture of a non-stimulating plant such as *Luffa cylindrica*, a vegetable fat and oil such as margarine, an aromatic plant such as *vanilla*, a pigment-containing plant such as the flower of *Gardenia jasminoides*, a plant having a pharmacodynamic effect such as *Allium sativum* L. f. *pekinense*, and various plant source modulating materials. The mixed cream may further be mixed with a sexual hormone and a stimulation auxiliary material extracted from a stimulative plant such as *Zingiber officinale*.
COPYRIGHT: (C)1994,JPO&Japio

L18 ANSWER 20 OF 20 JAPIO (C) 2004 JPO on STN
AN 1994-211675 JAPIO
TI PRIVATE PART-COATING SOLUTION CONTAINING ZANTHOXYLUM PIPERITUM
IN TEZUKA SHIRO; TEZUKA GORO
PA TEZUKA SHIRO
TEZUKA GORO
PI JP 06211675 A 19940802 Heisei
AI JP 1993-19260 (JP05019260 Heisei) 19930111
PRAI JP 1993-19260 19930111
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1994
IC ICM A61K035-78
ICS A61K035-78; A61K009-08
AB PURPOSE: To prepare the private part-coating solution immediately suitably stimulating the private part of a male and giving a pleasant **sensation** by simply directly coating on the private part with a sprayer, and enabling to increase and maintain the sexual energy of the private part.
CONSTITUTION: A Japanese pepper extract obtained from the Zanthoxylum piperitum and containing stimulative substances such as **sanshool** and sanshoamide as main ingredients is mixed with a dilution liquid such as water, an alcoholic liquid or an oil to control the stimulative concentrations of the Zanthoxylum piperitum extract. The dilution liquid is used by combining it with a liquid extracted from an animal, that extracted from an aromatic massively water-containing plant such as lemon or orange, that from a from a pigment-containing plant such as the flower of *Gardenia jasminoides*, that from a massively water-containing fruit such as *Luffa cylindrica* or peach, and that from a plant having a pharmacodynamic effect such as *Actinidia polygama* or *Allium sativum* L. f. *pekinense*. The mixture solution may further be mixed with a sexual hormone or a stimulation auxiliary solution extracted from *Zingiber officinale* or *Wasabi japonica*.

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=>

DETD

10 Min 20 Min

FLAVOR AMOUNT		
61.66	51.66	41.66
FLAVOR LIKING		
60	51.66	46.66
SWEETS AMOUNT		
60	38.33	31.66
SWEET LIKING	48.33	43.33
COOLING SENSATION		
8.33	5	5
COOLING LIKE	16.66	15
TEXTURE	38.33	43.33
TEXTURE LIKE	38.33	58.33
OVERALL LIKING		58.33333

IT 50-70-4, D-Glucitol, biological studies 50-99-7, D-Glucose, biological studies 57-48-7, D-Fructose, biological studies 57-50-1, biological studies 63-42-3, Lactose 69-65-8, Mannitol 81-07-2, Saccharin 87-81-0, D-Tagatose 87-99-0, Xylitol 100-88-9D, Cyclamate, derivs 585-86-4, Lactitol 585-88-6, Maltitol 12619-70-4D, Cyclodextrin, derivs 22839-47-0, Aspartame 25394-57-4, Acesulfame potassium 56038-13-2, Sucralose 80863-62-3, Alitame

(extended release of additives in comestible products)

ACCESSION NUMBER: 1999:67049 USPATFULL

TITLE: Comestible products having extended release of additives and method of making

INVENTOR(S): Huzinec, Robert J., Carol Stream, IL, United States
Kearns, Thomas R., Buffalo Grove, IL, United States
Schindeldecker, Terry L., Gurnee, IL, United States
Leaf Inc., Lake Forest, IL, United States (U.S. corporation)

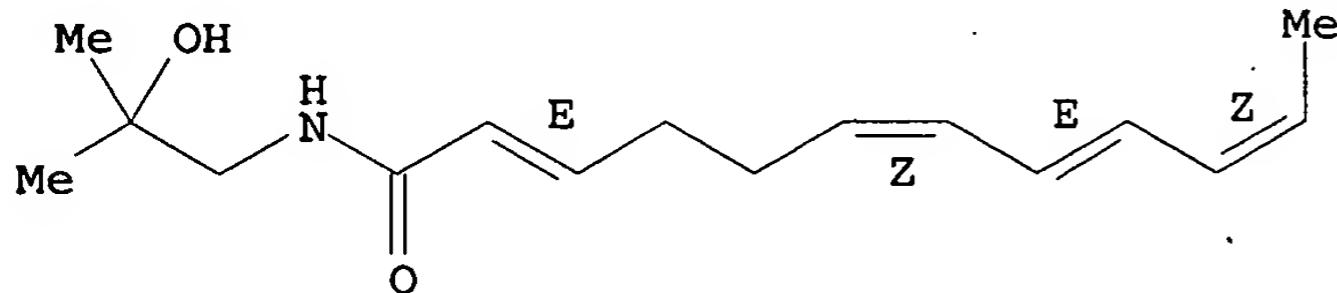
	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5912030		19990615
APPLICATION INFO.:	US 1997-923318		19970904 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-543422, filed on 16 Oct 1995, now abandoned		
DOCUMENT TYPE:	Utility		

L6 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 352515-13-0 REGISTRY
 CN Sanshool II (9CI) (CA INDEX NAME)
 ENTE An extract of Zanthoxylum piperidum; cannot equate to known structures for
 sanshools, as literature too old and inconclusive
 MF Unspecified
 CI MAN
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 DT.CA CAplus document type: Journal; Patent
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)
 RL.NP Roles from non-patents: NORL (No role in record)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 4 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 252193-26-3 REGISTRY
 CN 2,6,8,10-Dodecatetraenamide, N-(2-hydroxy-2-methylpropyl)-,
 (2E,6Z,8E,10Z)- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN Hydroxy- ϵ -sanshool
 FS STEREOSEARCH
 MF C16 H25 N O2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: BIOL (Biological study)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 110866-28-9 REGISTRY
 CN Sanshool V (9CI) (CA INDEX NAME)
 MF Unspecified
 CI MAN
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN

RN 110866-27-8 REGISTRY
CN Sanshool IV (9CI) (CA INDEX NAME)
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 5 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN
RN 110866-26-7 REGISTRY
CN Sanshool III (9CI) (CA INDEX NAME)
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

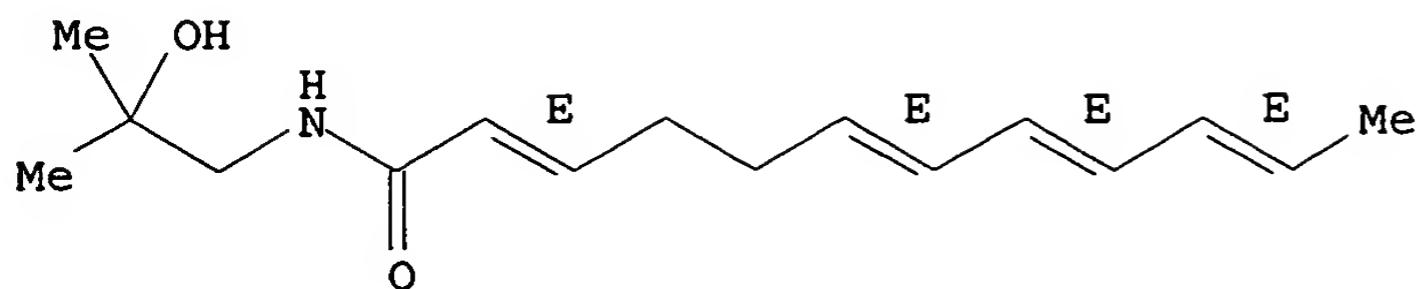
L6 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN
RN 110866-25-6 REGISTRY
CN Sanshool I (9CI) (CA INDEX NAME)
ENTE An extract of Zanthoxylum piperidum; cannot equate to known structures for
sanshools, as literature too old and inconclusive
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence);
NORL (No role in record)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN
RN 97465-69-5 REGISTRY
CN 2,6,8,10-Dodecatetraenamide, N-(2-hydroxy-2-methylpropyl)-,
(2E,6E,8E,10E)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,6,8,10-Dodecatetraenamide, N-(2-hydroxy-2-methylpropyl)-, (all-E)-
OTHER NAMES:
CN Hydroxy-β-sanshool
FS STEREOSEARCH
MF C16 H25 N O2
SR CA
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC
(Process); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence);
PREP (Preparation)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1907 TO DATE)
13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN

RN 83883-10-7 REGISTRY

CN 2,6,8,10-Dodecatetraenamide, N-(2-hydroxy-2-methylpropyl)-, (2E,6Z,8E,10E)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,6,8,10-Dodecatetraenamide, N-(2-hydroxy-2-methylpropyl)-, (E,E,Z,E)-

OTHER NAMES:

CN Hydroxy- α -sanshool

FS STEREOSEARCH

MF C16 H25 N O2

LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAPLUS, USPAT2, USPATFULL
(*File contains numerically searchable property data)

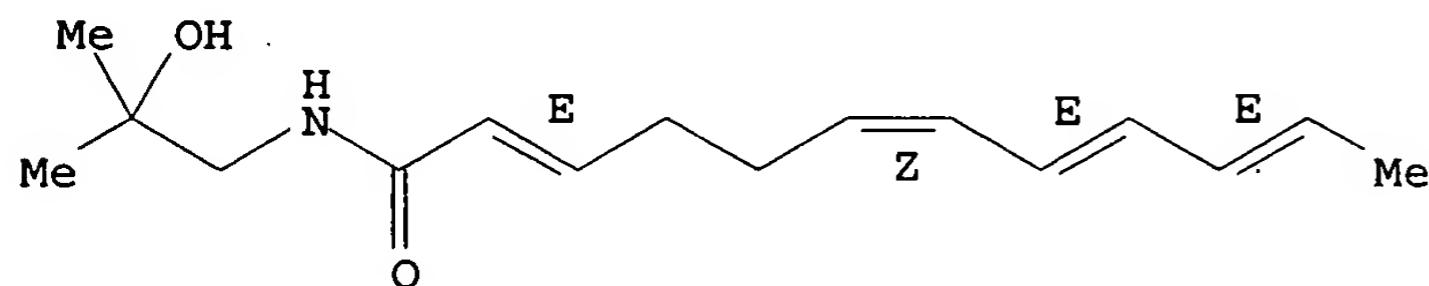
DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); OCCU (Occurrence); PROC (Process); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); USES (Uses)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

14 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN

RN 78886-66-5 REGISTRY

CN 2,4,8,10,12-Tetradecapentaenamide, N-(2-hydroxy-2-methylpropyl)-, (2E,4E,8Z,10E,12E)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,8,10,12-Tetradecapentaenamide, N-(2-hydroxy-2-methylpropyl)-, (E,E,E,Z,E)-

OTHER NAMES:

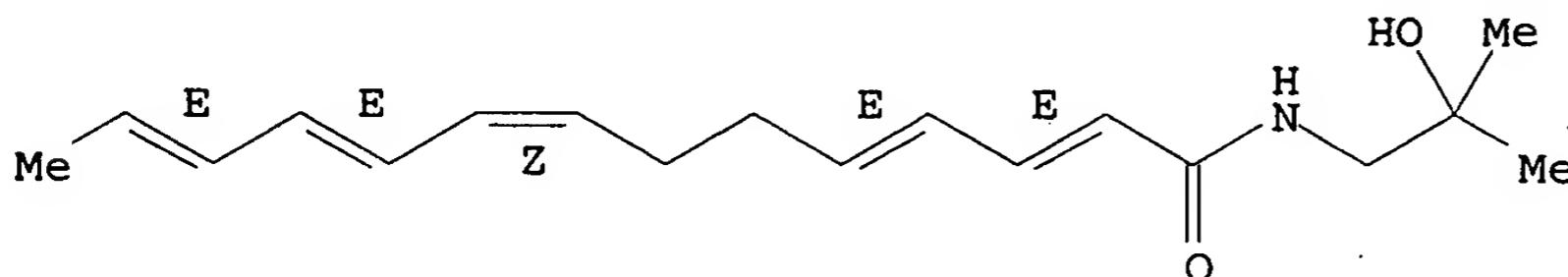
CN Hydroxy- γ -sanshool

CN Hydroxy- γ -sanshool
FS STEREOSEARCH
MF C18 H27 N O2
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS, USPAT2,
USPATFULL

(*File contains numerically searchable property data)

DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC
(Process); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence);
PREP (Preparation); USES (Uses)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1907 TO DATE)
13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN
RN 78886-65-4 REGISTRY

CN 2,4,8,10,12-Tetradecapentaenamide, N-(2-methylpropyl)-,
(2E,4E,8Z,10E,12E)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,8,10,12-Tetradecapentaenamide, N-(2-methylpropyl)-, (E,E,E,Z,E)-

OTHER NAMES:

CN γ -Sanshooel

CN γ -Sanshool

FS STEREOSEARCH

MF C18 H27 N O

LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAPLUS, IPA, NAPRALERT,
TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

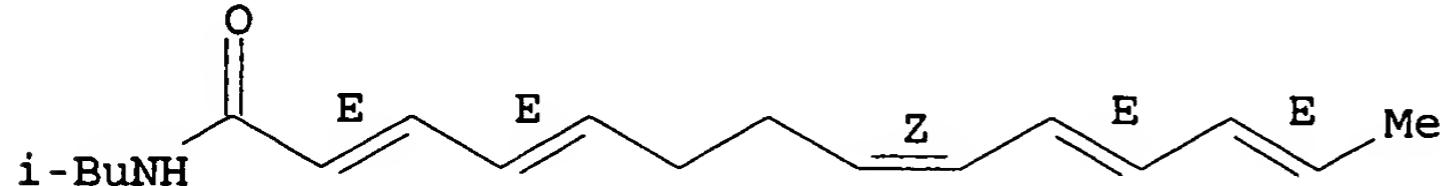
DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC
(Process); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence);
PREP (Preparation); PRP (Properties); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological
study)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

19 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

19 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 10076-00-3 REGISTRY
 CN 2,6,8,10-Dodecatetraenamide, N-(2-methylpropyl)-, (2E,6E,8E,10E)- (9CI)
 (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,6,8,10-Dodecatetraenamide, N-(2-methylpropyl)-, (all-E)-
 CN 2,6,8,10-Dodecatetraenamide, N-isobutyl-, (all-E)- (8CI)

OTHER NAMES:

CN β -Sanshool
 FS STEREOSEARCH
 MF C16 H25 N O
 CI COM

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, TOXCENTER
 (*File contains numerically searchable property data)

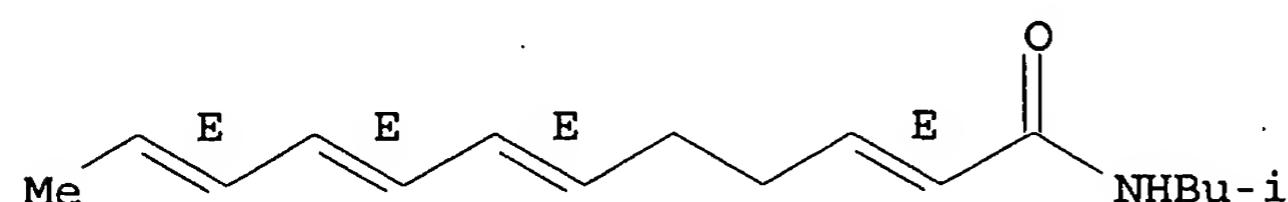
DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
 (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence);
 PREP (Preparation); PRP (Properties)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological
 study)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 504-97-2 REGISTRY
 CN 2,6,8,10-Dodecatetraenamide, N-(2-methylpropyl)-, (2E,6Z,8E,10E)- (9CI)
 (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,6,8,10-Dodecatetraenamide, N-(2-methylpropyl)-, (E,E,Z,E)-
 CN 2,6,8,10-Dodecatetraenamide, N-isobutyl-, (E,E,Z,E)- (8CI)

OTHER NAMES:

CN α -Sanshooel
 CN α -Sanshool
 CN Echinacein
 FS STEREOSEARCH
 MF C16 H25 N O
 CI COM

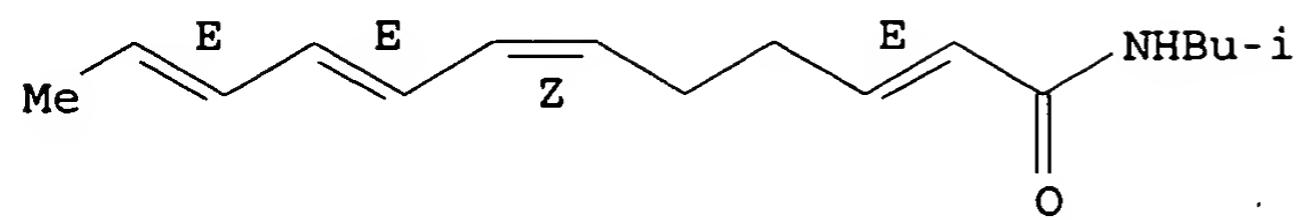
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS,
 CASREACT, IPA, MEDLINE, NAPRALERT, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); OCCU (Occurrence); PREP
 (Preparation); PROC (Process); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence);
 PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES
 (Uses); NORL (No role in record)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

23 REFERENCES IN FILE CA (1907 TO DATE)

23 REFERENCES IN FILE CAPLUS (1907 TO DATE)